

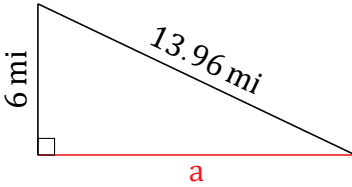
Pythagorean Theorem (D)

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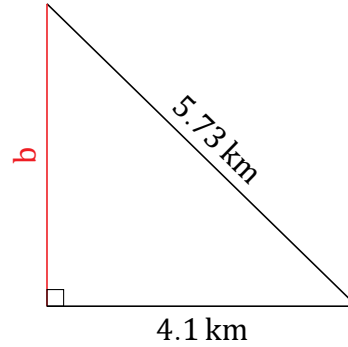
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Calculate the missing side measurement using $a^2 + b^2 = c^2$.

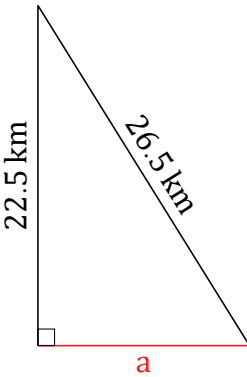
1.



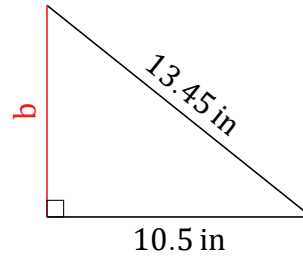
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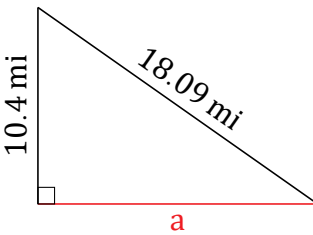
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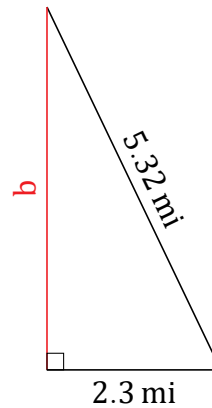
4.



5.



6.

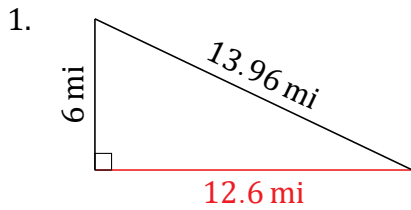


Pythagorean Theorem (D) Answers

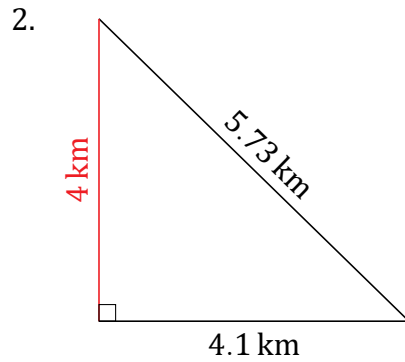
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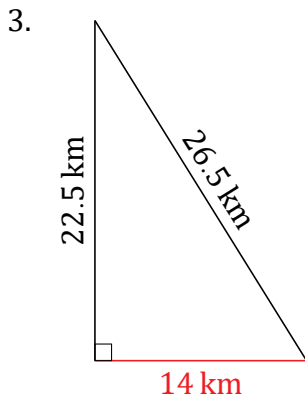
Calculate the missing side measurement using $a^2 + b^2 = c^2$.



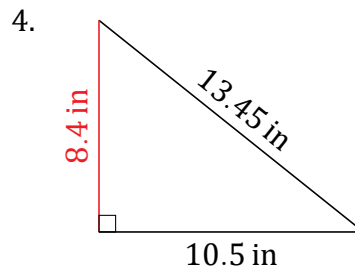
$$\begin{aligned}a^2 + 6^2 &= 13.96^2 \\a &= \sqrt{194.8816 - 36} \\a &= 12.6 \text{ mi}\end{aligned}$$



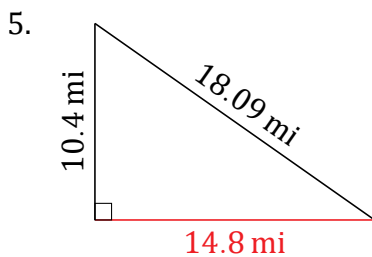
$$\begin{aligned}4.1^2 + b^2 &= 5.73^2 \\b &= \sqrt{32.8329 - 16.81} \\b &= 4 \text{ km}\end{aligned}$$



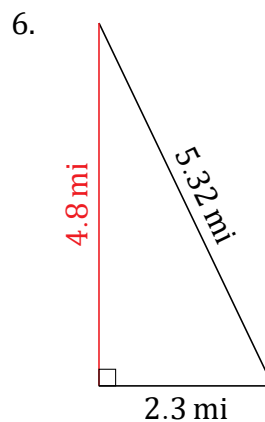
$$\begin{aligned}a^2 + 22.5^2 &= 26.5^2 \\a &= \sqrt{702.25 - 506.25} \\a &= 14 \text{ km}\end{aligned}$$



$$\begin{aligned}10.5^2 + b^2 &= 13.45^2 \\b &= \sqrt{180.9025 - 110.25} \\b &= 8.4 \text{ in}\end{aligned}$$



$$\begin{aligned}a^2 + 10.4^2 &= 18.09^2 \\a &= \sqrt{327.2481 - 108.16} \\a &= 14.8 \text{ mi}\end{aligned}$$



$$\begin{aligned}2.3^2 + b^2 &= 5.32^2 \\b &= \sqrt{28.3024 - 5.29} \\b &= 4.8 \text{ mi}\end{aligned}$$